

(a) inflow rate; and

(b) desired residence time of said oil and water mixture in said oil disengagement chamber such that, for a predefined range of inflows into said oil disengagement chamber, outflow from said effluent water chamber will contain a proportion of oil in water substantially below a predefined limit.

34. ~~(Previously amended) The separator of Claim 33, wherein said flow retarding means is operable to accumulate said oil and water mixture in said oil disengagement chamber in an oil and water mixture accumulation volume above said chamber low liquid level.~~

[Incorporated into Claim 33]

35. ~~(Previously added) The separator of Claim 33, wherein said flow retarding means comprises at least one siphon which primes at a chamber high liquid level and loses prime at said chamber low liquid level.~~ [Incorporated into Claim 33]

36. (Cancelled).

37. (Cancelled).

38. (To be cancelled)

39. ~~(Previously amended) The separator of Claim 38, wherein said accumulation volume is sized with reference to~~

(a) ~~inflow rate; and~~

(b) ~~desired residence time of said oil and water mixture in said oil disengagement chamber.~~ [Incorporated into Claim 33]

40 to 59 (To be cancelled)

60. (Currently amended) A method of converting a separator which has an oil disengagement chamber which normally operates liquid full into an oil from water separator as defined in claim 33, said method comprising: an oil from water separator which normally operates liquid full into an oil from water separator which has an oil disengagement chamber, said method comprising:

adapting said oil disengagement chamber to receive an oil and water mixture and retain it for a sufficient time in a relatively undisturbed state whereby oil in the mixture floats to the top of the mixture resulting in a substantially oil-free volume of water having

~~a layer of oil derived from said oil and water mixture floating on the surface thereof, the oil disengagement chamber being partially separated from an effluent water chamber by an under flow baffle which ducts the substantially oil free volume of water to the effluent water chamber, the oil disengagement chamber having a low liquid level which is higher than the under flow baffle; and~~

installing a flow retarding device in the form of said siphon in or in association with a weir wall of the ~~decant~~ separator so that a rate of outflow of the substantially oil free volume of water is controlled as a function of the head of the liquid in the effluent water chamber.

61. (Previously amended) An oil from water separator ~~system as defined in Claim 33,~~ comprising a plurality of oil from water separators each as defined by Claim 33, said plurality of separators connected in series whereby outflow from each preceding separator passes to an inlet of the next succeeding separator.

62. (Cancelled).

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